

| Road 1   |           |           |              |                         |
|----------|-----------|-----------|--------------|-------------------------|
| COL. NO. | X         | Y         | Dimmed Level | Post adopt Dimmed Level |
| 1        | 446812.75 | 298426.75 | 100%         | 100%                    |
| 2        | 446786.12 | 298441.17 | 70%          | 70%                     |
| 3        | 446758.56 | 298433.48 | 70%          | 70%                     |
| 4        | 446734.93 | 298409.28 | 70%          | 70%                     |
| 5        | 446704.68 | 298410.81 | 70%          | 70%                     |
| 6        | 446667.24 | 298415.35 | 70%          | 70%                     |
| 7        | 446630.76 | 298419.14 | 70%          | 70%                     |
| 8        | 446592.58 | 298406.40 | 70%          | 70%                     |
| 9        | 446559.46 | 298382.24 | 70%          | 70%                     |
| 10       | 446539.15 | 298346.25 | 70%          | 70%                     |
| 11       | 446543.91 | 298309.99 | 70%          | 70%                     |
| 12       | 446550.06 | 298277.71 | 70%          | 70%                     |
| 13       | 446555.28 | 298249.94 | 70%          | 70%                     |
| 14       | 446572.47 | 298227.39 | 70%          | 70%                     |
| 15       | 446597.20 | 298216.16 | 70%          | 70%                     |
| 16       | 446596.87 | 298235.91 | 70%          | 70%                     |

| Road 2   |           |           |              |                         |
|----------|-----------|-----------|--------------|-------------------------|
| COL. NO. | X         | Y         | Dimmed Level | Post adopt Dimmed Level |
| 1        | 446730.11 | 298435.64 | 70%          | 70%                     |
| 2        | 446710.31 | 298468.39 | 70%          | 70%                     |
| 3        | 446694.88 | 298494.22 | 70%          | 70%                     |

| Road 3   |           |           |              |                         |
|----------|-----------|-----------|--------------|-------------------------|
| COL. NO. | X         | Y         | Dimmed Level | Post adopt Dimmed Level |
| 1        | 446718.49 | 298390.30 | 50%          | 50%                     |
| 2        | 446725.87 | 298372.95 | 50%          | 50%                     |
| 3        | 446738.69 | 298355.73 | 100%         | 100%                    |

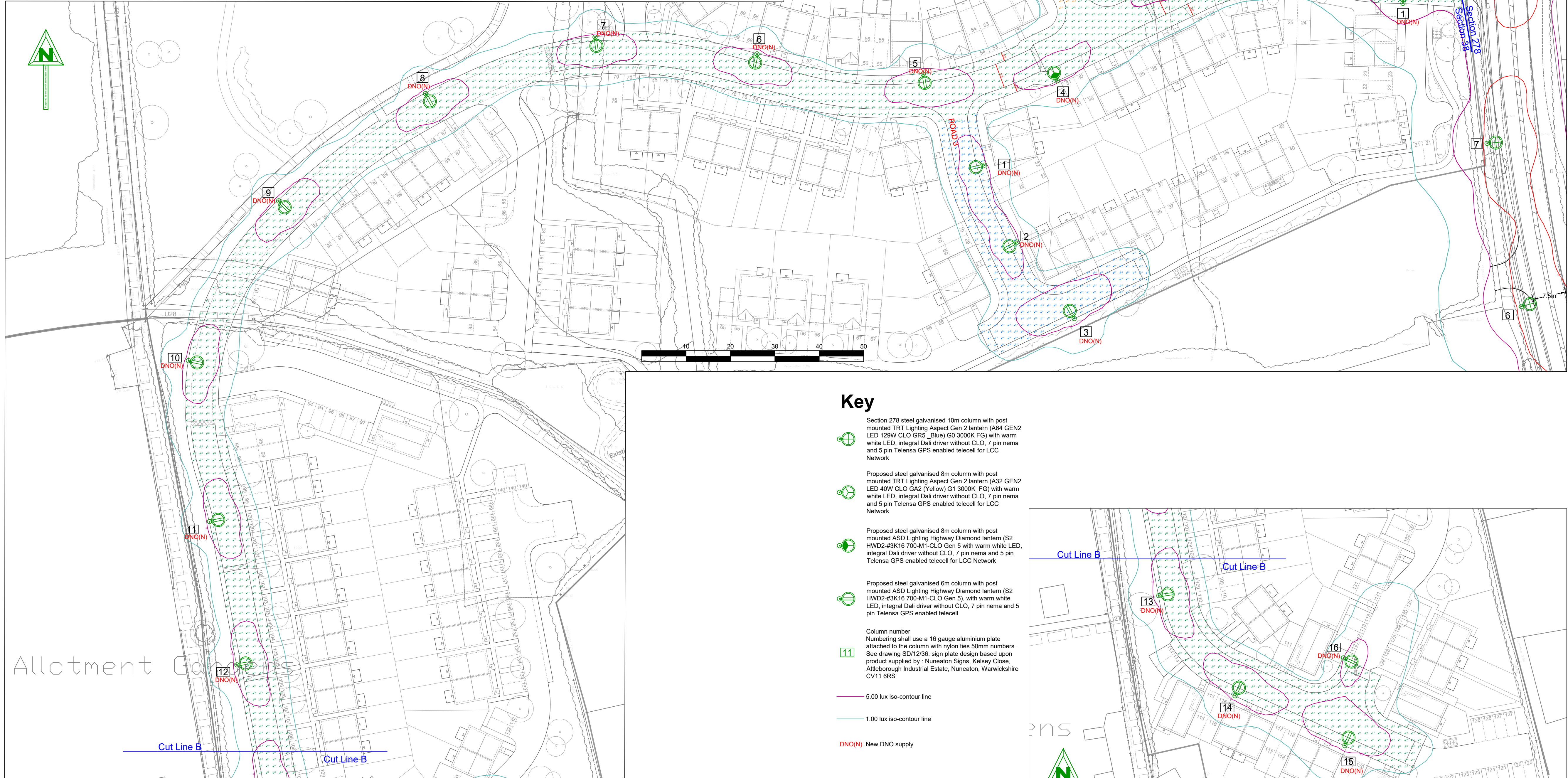
Road 1  
Results - Horizontal Illuminance (lux)  
Eave= 5.47  
Emin= 1.15  
Emax= 23.43  
Emin/Emax= 0.05  
Emin/Eav= 0.21  
Emax/Eav= 4.28

Road 2  
Results - Horizontal Illuminance (lux)  
Eave= 5.00  
Emin= 1.14  
Emax= 22.02  
Emin/Emax= 0.05  
Emin/Eav= 0.23  
Emax/Eav= 4.40

Road 3  
Results - Horizontal Illuminance (lux)  
Eave= 6.01  
Emin= 1.08  
Emax= 31.16  
Emin/Emax= 0.03  
Emin/Eav= 0.18  
Emax/Eav= 5.19

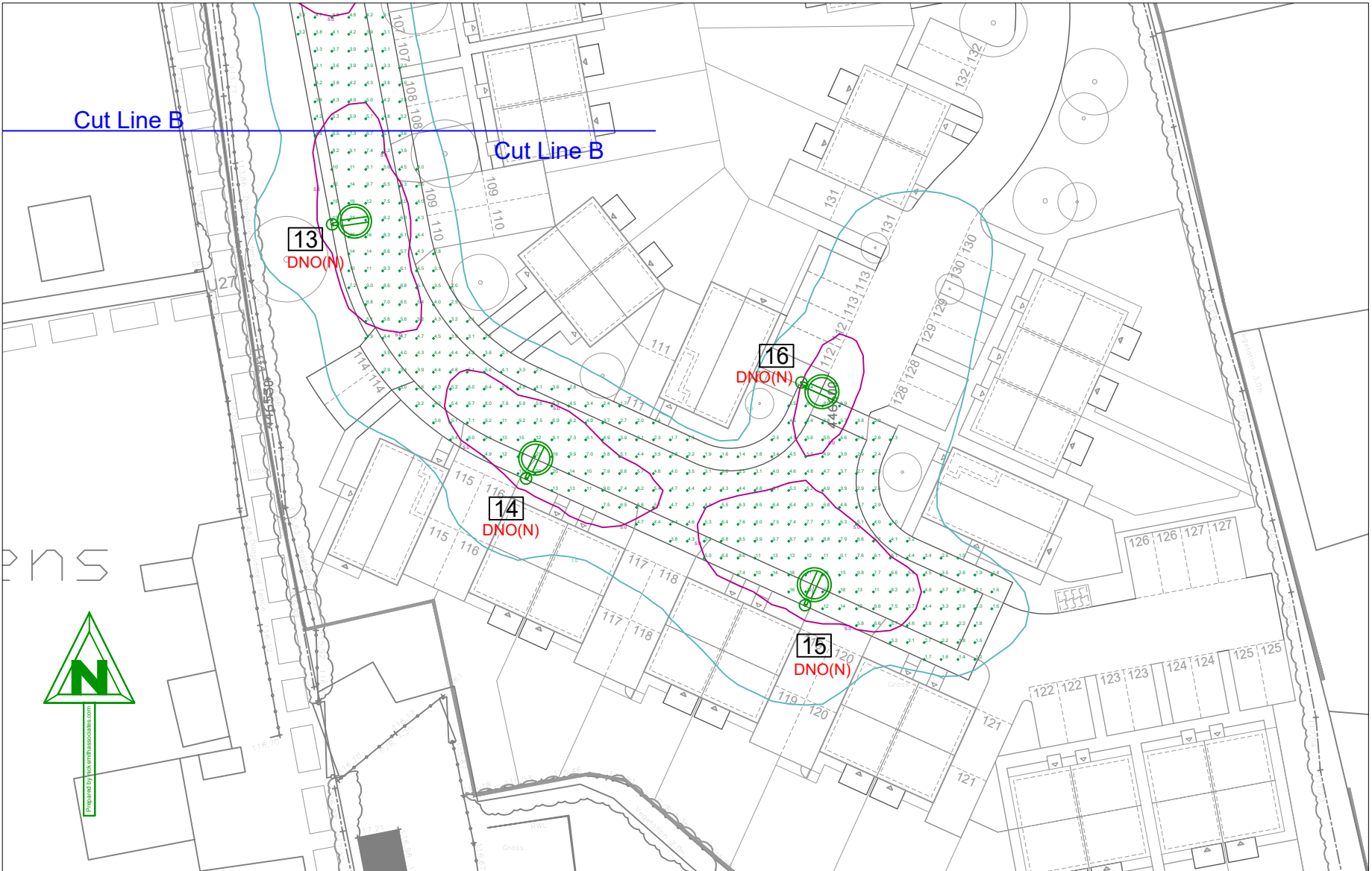
| Comparable Level of Lighting Classes from EN13201-2:2015 |    |    |    |    |    |    |    |   |   |   |
|----------------------------------------------------------|----|----|----|----|----|----|----|---|---|---|
| M Class                                                  | -  | M1 | M2 | M3 | M4 | M5 | M6 | - | - | - |
| C Class                                                  | C0 | C1 | C2 | C3 | C4 | C5 | -  | - | - | - |
| P Class                                                  | -  | -  | -  | P4 | P5 | P6 | P7 | - | - | - |

| Summary of Lighting P Classes from EN13201-2:2015 |           |          |           |
|---------------------------------------------------|-----------|----------|-----------|
| Class                                             | Eave      | E Min    | E Ave Max |
| P4                                                | 5.00 lux  | 1.00 lux | 7.50 lux  |
| P5                                                | 10.00 lux | 2.00 lux | 15.00 lux |
| P6                                                | 15.00 lux | 3.00 lux | 22.50 lux |



### Key

- Section 278 steel galvanised 10m column with post mounted TRT Lighting Aspect Gen 2 lantern (A64 GEN2 LED 120W CLO GFS - Blue) G0 3000K FG with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecoil for LCC Network
- Proposed steel galvanised 8m column with post mounted TRT Lighting Aspect Gen 2 lantern (A32 GEN2 LED 40W CLO GA2 (Yellow) G1 3000K FG) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecoil for LCC Network
- Proposed steel galvanised 8m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-4SK16 700-M1-CLO Gen 5 with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecoil for LCC Network
- Proposed steel galvanised 6m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-4SK16 700-M1-CLO Gen 5) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecoil
- Column number  
Numbering shall use a 16 gauge aluminium plate attached to the column with nylon ties 50mm numbers. See drawing SD/12/36, sign plate design based upon product supplied by: Nuneaton Signs, Kelsey Close, Athleborough Industrial Estate, Nuneaton, Warwickshire CV11 6RS
- 5.00 lux iso-contour line
- 1.00 lux iso-contour line
- DNO(N) New DNO supply

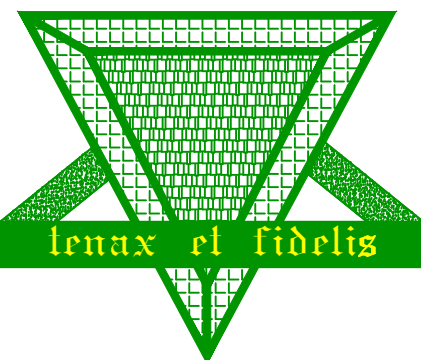


### Notes

- All column and signs in the verge or footway are to be serviced via Direct connection by Eon (unless shown otherwise). Signs and Columns shall be fitted with secondary isolation above the DNO cut out. The Unit shall be as Leicestershire County Council specification i.e. Charles Lighting LS01. Fuse discrimination shall comply with BS7671 between the DNO cut out (16A) and the secondary isolation or private cable cut out (6A).
- All adopted Lighting column shall be installed within the adopted highway, i.e. at the back of footpath but inside the back edging kerb. See standard drawing SD13-11.
- Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.
- In this instance the use of 3 dimensional masking has not been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
- Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2015.
- Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number,
- Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Electrical Lighting Solutions (www.elsltd.co.uk), Marwood Electrical (www.marwoodelectrical.co.uk) or Maclean Electrical (www.macleanelectrical.co.uk).
- This design has been prepared in accordance with BSS489-1:2020.
- Leicestershire County Council have apply a part night policy and may determined some columns to be have part night lighting. Part night switching to be applied using the Telensa CMS.
- Lanterns shall be pre programmed to dim to the output via the driver prior to adoption. See table for exact details
- All material and construction shall be in accordance with the Leicestershire CC highway design guide column specification. For column to drawing detail and specification see LCC drawing SD13/3.
- Earthing arrangements for lighting units shall include a 6mm<sup>2</sup> cross sectional area conductor bonding steel columns/integral base compartment posts/housings to the main earthing terminal associated with the service cut out. A flexible conductor of the same cross sectional area shall be used to bond the doors of such compartments and shall be of sufficient length to allow placement of door on ground without tension.
- Column installation depth to be checked to manufacturers installation instructions and LCC standard drawing detail and specification, 600mm to door bottom.

| REV                  | DETAILS | DWN                                                          | DATE |
|----------------------|---------|--------------------------------------------------------------|------|
| Drawing Number       |         | Revision                                                     |      |
| 3125-D-02            |         | -                                                            |      |
| Client               |         | Vistry Homes                                                 |      |
| Project              |         | Section 38<br>Leicester Road<br>Earl Shilton LE9 7EQ         |      |
| Drawing Title        |         | Proposed<br>Section 38 Lighting<br>and Illuminance<br>Layout |      |
| Scale at A1<br>1:500 |         | Sheet 1 of 1<br>Date<br>21.03.2025                           |      |

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All dimensions in metres